

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

PATENT SPECIFICATION

721,269



Date of Application and filing Complete Specification: March 27, 1953.

No. 8496/53.

Application made in Germany on Feb. 27, 1953.

Complete Specification Published: Jan. 5, 1955

Index at acceptance:—Class 19, C.

COMPLETE SPECIFICATION

Floor Cleaning Apparatus

I, JOSEF BLUM, of 44, Margarethenstrasse, Solingen, Germany, of German Nationality, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a floor cleaning apparatus of the kind comprising a sponge rubber pad which can be compressed and pressed out between rollers by a lever device pivoted to a handle for the apparatus.

A disadvantage found with existing apparatus of this kind is that the compression means and rollers require such a space that the apparatus cannot conveniently be put under furniture for cleaning the floor, whilst the sponge rubber pad normally assumes, with respect to the handle, a more or less angled position in an endeavour to be able to dispose the sponge rubber member as nearly horizontal as possible for the purpose of obtaining even wear.

It is the object of the present invention to overcome these disadvantages and according thereto, such a floor cleaning apparatus is characterised in that the pad is gripped in a U-shaped holder mounted on rods inserted through slots in a U-shaped handle holder carrying at the ends of its legs the rollers serving for compression of the pad, said rods being coupled to the lever, and in that the handle holder is mounted in axial alignment at the end of the handle, the adjacent one-third portion of which is slightly curved.

For compression of the sponge rubber member it is now only necessary to pull the lever pivoted on the handle in the direction of the person handling the apparatus, which is not inconvenient and can readily be performed because the lever need only describe a small arc. In a similar easy and convenient manner the sponge rubber pad can be pushed back into its starting position. The carrying rods for the sponge rubber pad do not hinder the use

of the apparatus if, for example, the floor under furniture has to be cleaned therewith. There is also the particular advantage that the handle holder is in axial alignment with the handle and this allows the sponge rubber pad to be set as near horizontal as possible for the purpose of obtaining even wear.

The invention further consists in that in the handle of the apparatus has a number of pivot holes to permit pivotal coupling of the lever thereto in different positions.

The possibility of alteration of the position of pivotal coupling of the lever co-acting with the carrying rods for the sponge rubber pad provides a two-fold advantage. On the one hand, if the sponge rubber pad is worn at one part, it is possible to alter the position of pivotal coupling of the lever so that the pad can be moved, in spite of the resulting partial wear, for the purpose of compression between the rollers of the apparatus without the danger of jamming up. On the other hand, there is also the possibility of alteration of the point of pivotal coupling of the lever as an advantage if a new pad, interchanged with an old pad, has irregularities in its breadth. Again, the possibility may exist that the sponge rubber pad cannot be fully pressed out or is pulled so far that upon movement back again of the pad into starting position, jamming of the pad between the rollers can take place, and such variations in dimensions can be made of no consequence by the possibility of alteration of the positioning of the lever.

The accompanying drawing illustrates an embodiment of the invention.

In this drawing:—

Fig. 1 shows the apparatus in front elevation.

Fig. 2 is a side elevation in the non-compressed position of the pad.

Fig. 3 is a side elevation with the pad compressed.

Price 4s 6d

Price 2s 8d

This cleaning apparatus consists of a handle 1, a handle holder 3 having two similar halves secured together by means of screws 2, and a sponge rubber pad 4. The handle holder 3 comprises a neck piece 5 in which the end of the slightly curved lower one-third portion of the handle 1 is inserted and securely held in place by the screws 2 holding together the halves of the handle holder. The sponge rubber pad 4 is fastened in a U-shaped holder 6 and is disposed therewith between rollers 7 which are disposed on axles carried in the legs of the handle holder 3. The sponge rubber pad 4 is carried by rods 9 which are inserted through slots 10 in the handle holder 3 and are coupled to a lever 11 pivoted to the handle of the cleaning apparatus. 12 designates an alternative hole in the handle which provides the possibility of alteration of the pivotal bearing of the lever 11 on the handle 1 if the lever has to be altered in position to permit movement of the pad 4 between the rollers without jamming up even when partly worn. The pad 4 projects at its ends with respect to its U-shaped holder 6 and the rollers 7, whereby for example during the cleaning of a floor the rollers 7 are prevented from coming into damaging contact with the floor surface or furniture. What I claim is:—

1. Apparatus for the cleaning of floors, of the kind comprising a sponge rubber pad which can be compressed and pressed out between rollers by a lever device pivoted to a handle for the apparatus, characterised in that the pad is gripped in a U-shaped holder mounted on rods inserted through slots in a U-shaped handle holder carrying at the ends of its legs the rollers serving for the compression of the pad, said rods being coupled to the lever, and in that the handle holder is mounted in axial alignment at the end of the handle, the adjacent one-third portion of which is slightly curved. 35 40 45

2. Floor cleaning apparatus, as claimed in claim 1, wherein the handle has a number of pivot holes to permit pivotal coupling of the lever thereto in different positions. 50

3. Floor cleaning apparatus, as claimed in either of claims 1 and 2, wherein the sponge rubber pad projects at its ends from the U-shaped holder and rollers. 55

4. Floor cleaning apparatus constructed and arranged as particularly described with reference to the accompanying drawing. 60

CHATWIN & COMPANY,
253, Gray's Inn Road, London, W.C.1,
Chartered Patent Agents.

Fig. 1

Fig. 2 1





